Contact

Location
Pereira, Colombia

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Email
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LinkedIn

GitHub

Portfolio

Education

Systems Engineering
Technological University of Pereira (UTP)
2023 - 2028

Desarrollo Web Full-Stack
Bootcamp in Technological University of Pereira (UTP)
2024

Skills

- Python
- TypeScript
- TensorFlow
- Selenium
- React Native
- ReactJS
- Node.js
- PostgreSQL
- Docker
- AWS
- SCRUM

Languages

- English
- Spanish

MATEO MORALES

Systems Engineering Student | Web and Machine Learning Developer

Experience

2024 - Present

Member of the Neuroinformatics and Artificial Intelligence Research Group (SNEIA)

Technological University of Pereira | Los Alamos, Pereira

- **Software:** Developed computer vision software for cell segmentation in brain tissue micrographs using machine learning. **Technologies:** SAM (Segment Anything Model), YOLO, Python y TensorFlow, Colab.
- Provided educational support to other group members in Machine Learning topics.

2023 - 2025

Personal Projects

- **Geographey:** Geography web game with the objective to identify countries by name and flag and point them in a map. **Technologies:** ReactJS, Tailwind, JavaScript, TopoJSON.
- **Qr Scanner:** Mobile app to read and store in history QR and barcodes, with settings section for customization. **Technologies:** React Native, JavaScript, Expo.
- **Fluid Simulator**: Fluid simulator using SPH (Smoothed Particle Hydrodynamics) that allows users to interact with the simulation by adding or removing particles and pausing the simulation.. **Technologies:** C++, QT, OpenGL, OpenMP.

Certifications

2025

Machine Learning Supervisado

Issuer: Technological University of Pereira

Technologies: Machine learning, neural networks, convolutional neural networks (CNN), Orange (software), Kaggle, K-Means, SVM

2025

AWS Certifications

Issuer: Amazon Web Services Training and Certification

Certificados: AWS Getting statrted with **Cloud**, **Storage**, **Networking**, **Databases**, **Compute.**

Technologies: Amazon Web Services, AWS Cloud, Cloud computing, AWS Storage Services, AWS Compute, AWS Databases, AWS Networking.

2023 - 2025

Other Certificates

Certificates: Nuclear Technologies Symposium, Python Essentials 1, Networking Academy Learn-A-Thon 2023